

WHAT IS CLAIMED IS

1. A fiber construction comprising:

a non-slip fiber;

5 a conductive fiber having a conductive core and a conductive semi-fluid sleeve for enclosing said conductive core,

wherein said non-slip fiber and said conductive fiber are intertwined into a conductive non-slip mesh.

2. A conductive fiber comprising:

a conductive core; and

10 a conductive semi-fluid sleeve about said conductive core.

3. The conductive fiber of claim 2, wherein said conductive core is adapted to engage said conductive semi-fluid sleeve.

4. The conductive fiber of claim 2, wherein said 15 conductive core is made of a conductive polymer.

5. The conductive fiber of claim 2, wherein said conductive core is a conductive metalized fiber.

6. The conductive fiber of claim 2, wherein said conductive core is a conductive graphitized fiber.

20 7. The conductive fiber of claim 2, wherein said conductive core is made of a conductive metalized foil.

8. The conductive fiber of claim 2, wherein said conductive semi-fluid sleeve has a viscosity to facilitate adhesion to said conductive core.

9. The conductive fiber of claim 2, wherein said
5 conductive semi-fluid sleeve is sonically welded to said conductive core.

10. The conductive fiber of claim 2, wherein said conductive semi-fluid sleeve is made of silicon gel.

11. A conductive fiber comprising:

10 a conductive fiber core;

a non-slip fiber being wrapped around said conductive fiber core; and

a conductive semi-fluid fiber being wrapped around said conductive fiber core in coincidence with said non-slip fiber.

15 12. The conductive fiber of claim 11, wherein said conductive fiber core is adapted to engage said non-slip fiber and said conductive semi-fluid fiber.

13. The conductive fiber of claim 11, wherein said conductive fiber core is made of a conductive polymer.

20 14. The conductive fiber of claim 11, wherein said conductive fiber core is a conductive metalized fiber.

15. The conductive fiber of claim 11, wherein said conductive fiber core is a conductive graphitized fiber.

16. The conductive fiber of claim 11, wherein said conductive fiber core is made of a conductive metalized foil.

5 17. The conductive fiber of claim 11, wherein said conductive semi-fluid fiber has a viscosity to facilitate adhesion to said conductive fiber core.

18. The conductive fiber of claim 11, wherein said conductive semi-fluid fiber is connected to said conductive fiber
10 core.

19. The conductive fiber of claim 11, wherein said non-slip fiber is connected to said conductive fiber core.

20. The conductive fiber of claim 11, wherein said conductive semi-fluid fiber and said non-slip fiber are sonically
15 welded to said conductive fiber core.